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10/729,048 12/05/2003 Scott Caldwell 4348-000139 27572 7590 02/02/2006 EXAMINER	9302	
27572 7590 02/02/2006 EXAMINER		
	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. HEINRICH, SAMUEL	HEINRICH, SAMUEL M	
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303 ART UNIT PAR	APER NUMBER	
1725		

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Summary	10/729,048	CALDWELL ET AL.		
	Examiner	Art Unit		
	Samuel M. Heinrich	1725		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1) Responsive to communication(s) filed on				
2a) This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-9 is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-9</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/o	r election requirement.			
Application Papers				
9) The specification is objected to by the Examine	r.			
10)⊠ The drawing(s) filed on <u>05 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau		od.		
* See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)	A) 🗖 1=4== (== 0 ==	(DTO 440)		
2) Notice of References Cited (P10-892) Provided in Notice of Draftsperson's Patent Drawing Review (PT0-948)	4) 💹 Interview Summary Paper No(s)/Mail Da	ate		
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 6,528,755 to Grewell et al and in view of USPN 5,408,572 to Kriege. AAPA discloses well known laser welding (Disclosure Figures 1 and 2, Disclosure Specification Background of the Invention), but does not describe instant claimed output light converging features. Grewell et al disclose known light guide means for controlling output light for laser welding. Kriege disclose (Figures 2 and 3) well known cone shaped light emitting units. The use of the well known cone shaped light emitting unit combined with the AAPA light guide would

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have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because laser beam control is well known as described by Grewell et al and because the tapered unit output control is very well known in the art.

Response to Arguments

Applicant's arguments filed November 08, 2005 have been fully considered but they are not persuasive. Applicant argues that Kriege increases the physical width of the beam. This argument is not persuasive. Kriege describe (column 4, lines 47-57) "the emission characteristic of a light-emitting unit according to the invention is essentially determined by its geometry, i.e., its dimensions and angles, as well as by the emission characteristic of the feeding lightguide and the geometrical arrangement of lightguide and light-emitting unit relatively to each other." Control of light output by changing of shape of the optical device in order to produce exiting light not having outward dispersal in a fan or cone shape would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the dispersal is well known (AAPA) and the control is well known as disclosed by Kriege.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. JP2-55303, JP02000107879A, and JP02003071583A disclose laser cutting and machining apparatus and methods comprising shaped light guides. Ascher, Stephens, and Davenport et al describe light guides.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner Art Unit 1725 Page 4

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